



September 28, 2021

Andy Warnick
Rosemont Copper Company
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TEL (520) 400-0085
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Work Order No.: 2110262
Order Name: Baseline Stormwater
Monitoring

RE: Baseline Stormwater Monitoring

Dear Andy Warnick,

Turner Laboratories, Inc. received 4 sample(s) on 09/09/2021 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0262
Date Received: 09/09/2021

Order: Baseline Stormwater Monitoring

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
21I0262-01	TTA-1 090521	Storm Water	09/05/2021 2110
21I0262-02	TTA-3 090521	Storm Water	09/05/2021 2110
21I0262-03	TTB-1 090521	Storm Water	09/05/2021 2110
21I0262-04	D4b-1b090521	Storm Water	09/05/2021 2110

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0262
Date Received: 09/09/2021

Case Narrative

Alkalinity analysis was not reported for TTB-1 090521 due to matrix interference. The pH was less than 4.5.

The Ion Balance Calculation for TTB-1 090521 could not be calculated due to not reporting a Alkalinity result.

N-1 = The Duplicate for the TDS batch had an RPD of 13% which is greater than the 5% method limit. The sample that was used for the duplicate was very high in concentration and therefore led to the duplicate being outside of limits. There are two passing Sample Duplicates in the batch. The data should not be impacted.

- E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
- E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
- H1 Sample analysis was performed past holding time.
- H3 Sample was received and/or analysis requested past holding time.
- H5 This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
- M1 Matrix spike recovery was high; the associated LCS/LCSD was acceptable.
- M2 Matrix spike recovery was low; the associated LCS/LCSD was acceptable.
- M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.
- N1 See case narrative.
- R12 RPD/RSD exceeded the method acceptance limit. Result less than 5 times the PQL.
- R9 Sample RPD exceeded the laboratory acceptance limit.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

- ND Not Detected at or above the PQL
- PQL Practical Quantitation Limit
- DF Dilution Factor

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Lab Sample ID: 2110262-01

Client Sample ID: TTA-1 090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	240		22		mg/L	1	09/16/2021 1555	09/21/2021 1020	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	560				mg/L	1	09/20/2021 1130	09/22/2021 1135	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	7.1				mg/L	10	09/18/2021 1030	09/20/2021 1610	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	1.3		0.10		mg/L	1	09/10/2021 1410	09/11/2021 0413	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.016	0.0032	0.10	E4	mg/L	1	09/16/2021 1555	09/21/2021 1020	MH
Calcium	84		4.0		mg/L	1	09/16/2021 1555	09/21/2021 1020	MH
Iron	ND		0.30		mg/L	1	09/16/2021 1555	09/21/2021 1020	MH
Magnesium	6.3		3.0		mg/L	1	09/16/2021 1555	09/21/2021 1020	MH
Potassium	ND		5.0		mg/L	1	09/16/2021 1555	09/21/2021 1020	MH
Silica	5.3		0.20		mg/L	1	09/16/2021 1555	09/21/2021 1020	MH
Sodium	ND		5.0		mg/L	1	09/16/2021 1555	09/21/2021 1020	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	0.072		0.040		mg/L	1	09/16/2021 1555	09/17/2021 1535	CR
Antimony	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1535	CR
Arsenic	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1535	CR
Barium	0.015		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1535	CR
Beryllium	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1535	CR
Cadmium	0.0028		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1535	CR
Chromium	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1535	CR
Cobalt	0.011		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1535	CR
Copper	0.32		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1535	CR
Lead	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1535	CR
Manganese	1.2		0.025		mg/L	100	09/16/2021 1555	09/17/2021 1610	CR
Molybdenum	0.00026		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1535	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0262
Lab Sample ID: 21I0262-01

Client Sample ID: TTA-1 090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nickel	0.0059		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1535	CR
Selenium	0.0019	0.00025	0.0025	E4	mg/L	1	09/16/2021 1555	09/17/2021 1535	CR
Silver	ND	0.000021	0.00050	E8	mg/L	1	09/16/2021 1555	09/17/2021 1535	CR
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/16/2021 1555	09/20/2021 1531	CR
Zinc	0.42		0.040		mg/L	1	09/16/2021 1555	09/17/2021 1535	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	0.00011	0.000082	0.0020	E4	mg/L	1	09/27/2021 1030	09/27/2021 1513	RAD
Turbidity-E180.1									
Turbidity	890		10	H3	NTU	100	09/10/2021 1632	09/13/2021 0940	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.75		0.10		mg/L	1	09/20/2021 1130	09/22/2021 1135	MH
Calcium	150		4.0		mg/L	1	09/20/2021 1130	09/22/2021 1135	MH
Iron	530		3.0		mg/L	10	09/20/2021 1130	09/22/2021 1208	MH
Magnesium	43		3.0		mg/L	1	09/20/2021 1130	09/22/2021 1135	MH
Potassium	51		5.0		mg/L	1	09/20/2021 1130	09/22/2021 1135	MH
Silica	170		2.0		mg/L	10	09/20/2021 1130	09/22/2021 1208	MH
Sodium	ND		5.0		mg/L	1	09/20/2021 1130	09/22/2021 1135	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	82		20		mg/L	500	09/17/2021 1030	09/21/2021 1221	CR
Antimony	0.0013		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1101	CR
Arsenic	0.014		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1101	CR
Barium	0.57		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1101	CR
Beryllium	0.0079		0.00025		mg/L	1	09/17/2021 1030	09/21/2021 1101	CR
Cadmium	0.0097		0.00025		mg/L	1	09/17/2021 1030	09/21/2021 1101	CR
Chromium	0.091		0.0050		mg/L	10	09/17/2021 1030	09/22/2021 1311	CR
Cobalt	0.0613		0.00250		mg/L	10	09/17/2021 1030	09/21/2021 1242	CR
Copper	34		0.25		mg/L	500	09/17/2021 1030	09/21/2021 1221	CR
Lead	0.45		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1101	CR
Manganese	4.6		0.0025		mg/L	10	09/17/2021 1030	09/21/2021 1242	CR
Molybdenum	0.018		0.00025		mg/L	1	09/17/2021 1030	09/21/2021 1101	CR
Nickel	0.061		0.0050		mg/L	10	09/17/2021 1030	09/21/2021 1242	CR
Selenium	0.058		0.0025		mg/L	1	09/17/2021 1030	09/21/2021 1101	CR
Silver	0.047		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1101	CR
Thallium	0.0025		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1101	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Lab Sample ID: 2110262-01

Client Sample ID: TTA-1 090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Uranium	0.017		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1101	CR
Zinc	2.1		0.40		mg/L	10	09/17/2021 1030	09/21/2021 1242	CR

CVAA Total Mercury-E245.1

Mercury	0.00096	0.00036	0.0010	E4	mg/L	1	09/23/2021 1015	09/23/2021 1537	RAD
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Anions by Ion Chromatography-E300.0 (2.1)

Chloride	1.4		1.0		mg/L	1	09/10/2021 1410	09/11/2021 0413	JG
Fluoride	0.76		0.50		mg/L	1	09/10/2021 1410	09/11/2021 0413	JG
Nitrogen, Nitrate (As N)	1.3		0.50	H3	mg/L	1	09/10/2021 1410	09/11/2021 0413	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	09/10/2021 1410	09/11/2021 0413	JG
Phosphorus, Dissolved	ND		0.50	H3	mg/L	1	09/10/2021 1410	09/11/2021 0413	JG
Orthophosphate (As P)									
Sulfate	200		50		mg/L	10	09/10/2021 1410	09/20/2021 2211	JG

Calculation-Ion Balance

Anion	6.09				meq/L	1	09/28/2021 1324	09/28/2021 1326	KB
Cation	4.78				meq/L	1	09/28/2021 1324	09/28/2021 1326	KB
Cation/Anion, % Difference	12.1				meq/L	1	09/28/2021 1324	09/28/2021 1326	KB

Total Kjeldahl Nitrogen-PAI-DK01

Nitrogen, Total Kjeldahl	5.8		5.0		mg/L	10	09/18/2021 1030	09/20/2021 1610	JG
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Alkalinity-SM2320B

Alkalinity, Bicarbonate (As CaCO3)	80		2.0		mg/L	1	09/15/2021 1123	09/16/2021 1235	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/15/2021 1123	09/16/2021 1235	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/15/2021 1123	09/16/2021 1235	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/15/2021 1123	09/16/2021 1235	AGC
Alkalinity, Total (As CaCO3)	80		2.0		mg/L	1	09/15/2021 1123	09/16/2021 1235	AGC

Specific Conductance-SM2510 B

Conductivity	550		0.10		µmhos/cm	1	09/13/2021 1600	09/13/2021 1630	CWB
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Total Dissolved Solids (Residue, Filterable)-SM2540 C

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Lab Sample ID: 2110262-01

Client Sample ID: TTA-1 090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Dissolved Solids (Residue, Filterable)									
Total Dissolved Solids (Residue, Filterable)	370		20		mg/L	1	09/10/2021 0818	09/14/2021 1310	AGC
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	3500		10		mg/L	1	09/10/2021 0815	09/13/2021 1615	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	0.83		0.50		mg/L	1	09/15/2021 1030	09/15/2021 1632	JG
Silica-SM4500-SiO2 C									
Silica	6.0		2.0		mg/L	1	09/13/2021 1200	09/13/2021 1300	AGC
pH-SW9045D									
pH (pH Units)	7.4			H5	-	1	09/13/2021 1445	09/13/2021 1544	CWB
Temperature (°C)	21			H5	-	1	09/13/2021 1445	09/13/2021 1544	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Lab Sample ID: 2110262-02

Client Sample ID: TTA-3 090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	310		22		mg/L	1	09/16/2021 1555	09/21/2021 1023	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	390				mg/L	1	09/20/2021 1130	09/22/2021 1138	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	9.7				mg/L	10	09/18/2021 1030	09/20/2021 1610	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	0.86		0.10		mg/L	1	09/10/2021 1410	09/11/2021 0432	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.038	0.0032	0.10	E4	mg/L	1	09/16/2021 1555	09/21/2021 1023	MH
Calcium	110		4.0		mg/L	1	09/16/2021 1555	09/21/2021 1023	MH
Iron	ND		0.30		mg/L	1	09/16/2021 1555	09/21/2021 1023	MH
Magnesium	5.8		3.0		mg/L	1	09/16/2021 1555	09/21/2021 1023	MH
Potassium	5.3		5.0		mg/L	1	09/16/2021 1555	09/21/2021 1023	MH
Silica	14		0.20		mg/L	1	09/16/2021 1555	09/21/2021 1023	MH
Sodium	ND		5.0		mg/L	1	09/16/2021 1555	09/21/2021 1023	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	ND		0.040		mg/L	1	09/16/2021 1555	09/17/2021 1539	CR
Antimony	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1539	CR
Arsenic	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1539	CR
Barium	0.017		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1539	CR
Beryllium	ND		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1539	CR
Cadmium	0.00033		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1539	CR
Chromium	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1539	CR
Cobalt	0.0032		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1539	CR
Copper	0.15		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1539	CR
Lead	ND		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1539	CR
Manganese	0.97		0.025		mg/L	100	09/16/2021 1555	09/17/2021 1614	CR
Molybdenum	0.054		0.00025		mg/L	1	09/16/2021 1555	09/17/2021 1539	CR
Nickel	0.00087		0.00050		mg/L	1	09/16/2021 1555	09/17/2021 1539	CR
Selenium	0.0024	0.00025	0.0025	E4	mg/L	1	09/16/2021 1555	09/17/2021 1539	CR
Silver	0.000026	0.000021	0.00050	E4	mg/L	1	09/16/2021 1555	09/17/2021 1539	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Lab Sample ID: 2110262-02

Client Sample ID: TTA-3 090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/16/2021 1555	09/20/2021 1535	CR
Zinc	ND		0.040		mg/L	1	09/16/2021 1555	09/17/2021 1539	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	0.00012	0.000082	0.0020	E4	mg/L	1	09/27/2021 1030	09/27/2021 1515	RAD
Turbidity-E180.1									
Turbidity	550		10	H3	NTU	100	09/10/2021 1632	09/13/2021 0940	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.21		0.10		mg/L	1	09/20/2021 1130	09/22/2021 1138	MH
Calcium	130		4.0		mg/L	1	09/20/2021 1130	09/22/2021 1138	MH
Iron	48		0.30		mg/L	1	09/20/2021 1130	09/22/2021 1138	MH
Magnesium	17		3.0		mg/L	1	09/20/2021 1130	09/22/2021 1138	MH
Potassium	11		5.0		mg/L	1	09/20/2021 1130	09/22/2021 1138	MH
Silica	81		0.20		mg/L	1	09/20/2021 1130	09/22/2021 1138	MH
Sodium	ND		5.0		mg/L	1	09/20/2021 1130	09/22/2021 1138	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	15		4.0		mg/L	100	09/17/2021 1030	09/21/2021 1231	CR
Antimony	0.00064		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1104	CR
Arsenic	0.0082		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1104	CR
Barium	0.11		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1104	CR
Beryllium	0.0020		0.00025		mg/L	1	09/17/2021 1030	09/21/2021 1104	CR
Cadmium	0.0020		0.00025		mg/L	1	09/17/2021 1030	09/21/2021 1104	CR
Chromium	0.016		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1104	CR
Cobalt	0.0119		0.000250		mg/L	1	09/17/2021 1030	09/21/2021 1104	CR
Copper	11		0.050		mg/L	100	09/17/2021 1030	09/21/2021 1231	CR
Lead	0.031		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1104	CR
Manganese	1.2		0.025		mg/L	100	09/17/2021 1030	09/21/2021 1231	CR
Molybdenum	0.14		0.00025		mg/L	1	09/17/2021 1030	09/21/2021 1104	CR
Nickel	0.015		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1104	CR
Selenium	0.026		0.0025		mg/L	1	09/17/2021 1030	09/21/2021 1104	CR
Silver	0.010		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1104	CR
Thallium	0.00039	0.000023	0.00050	E4	mg/L	1	09/17/2021 1030	09/21/2021 1104	CR
Uranium	0.0078		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1104	CR
Zinc	0.34		0.040		mg/L	1	09/17/2021 1030	09/21/2021 1104	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Lab Sample ID: 2110262-02

Client Sample ID: TTA-3 090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	0.00060	0.00036	0.0010	E4	mg/L	1	09/23/2021 1015	09/23/2021 1539	RAD
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	1.6		1.0		mg/L	1	09/10/2021 1410	09/11/2021 0432	JG
Fluoride	0.89		0.50		mg/L	1	09/10/2021 1410	09/11/2021 0432	JG
Nitrogen, Nitrate (As N)	0.74		0.50	H3	mg/L	1	09/10/2021 1410	09/11/2021 0432	JG
Nitrogen, Nitrite (As N)	0.11		0.10	H3	mg/L	1	09/10/2021 1410	09/11/2021 0432	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	H3	mg/L	1	09/10/2021 1410	09/11/2021 0432	JG
Sulfate	220		50		mg/L	10	09/10/2021 1410	09/20/2021 2231	JG
Calculation-Ion Balance									
Anion	6.62				meq/L	1	09/28/2021 1324	09/28/2021 1326	KB
Cation	6.14				meq/L	1	09/28/2021 1324	09/28/2021 1326	KB
Cation/Anion, % Difference	3.71				meq/L	1	09/28/2021 1324	09/28/2021 1326	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	8.9		5.0		mg/L	10	09/18/2021 1030	09/20/2021 1610	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	82		2.0		mg/L	1	09/15/2021 1123	09/16/2021 1235	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/15/2021 1123	09/16/2021 1235	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/15/2021 1123	09/16/2021 1235	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/15/2021 1123	09/16/2021 1235	AGC
Alkalinity, Total (As CaCO3)	82		2.0		mg/L	1	09/15/2021 1123	09/16/2021 1235	AGC
Specific Conductance-SM2510 B									
Conductivity	220		0.10		µmhos/cm	1	09/13/2021 1600	09/13/2021 1630	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	450		20		mg/L	1	09/10/2021 0818	09/14/2021 1310	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Lab Sample ID: 2110262-02

Client Sample ID: TTA-3 090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	1600		10		mg/L	1	09/10/2021 0815	09/13/2021 1615	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	0.58		0.50		mg/L	1	09/15/2021 1030	09/15/2021 1632	JG
Silica-SM4500-SiO2 C									
Silica	9.5		2.0		mg/L	1	09/22/2021 1030	09/22/2021 1213	AGC
pH-SW9045D									
pH (pH Units)	7.5			H5	-	1	09/13/2021 1445	09/13/2021 1546	CWB
Temperature (°C)	21			H5	-	1	09/13/2021 1445	09/13/2021 1546	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0262
Lab Sample ID: 21I0262-03

Client Sample ID: TTB-1 090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	1300		22		mg/L	1	09/16/2021 1555	09/21/2021 1026	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	1300				mg/L	1	09/20/2021 1130	09/22/2021 1211	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	11				mg/L	10	09/18/2021 1030	09/20/2021 1610	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	1.1		0.10		mg/L	1	09/10/2021 1410	09/11/2021 0452	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.022	0.0032	0.10	E4	mg/L	1	09/16/2021 1555	09/21/2021 1026	MH
Calcium	310		4.0		mg/L	1	09/16/2021 1555	09/21/2021 1026	MH
Iron	4.1		0.30		mg/L	1	09/16/2021 1555	09/21/2021 1026	MH
Magnesium	130		3.0		mg/L	1	09/16/2021 1555	09/21/2021 1026	MH
Potassium	ND		5.0		mg/L	1	09/16/2021 1555	09/21/2021 1026	MH
Silica	23		0.20		mg/L	1	09/16/2021 1555	09/21/2021 1026	MH
Sodium	ND		5.0		mg/L	1	09/16/2021 1555	09/21/2021 1026	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	51		20		mg/L	500	09/16/2021 1555	09/27/2021 1310	CR
Antimony	ND		0.00050		mg/L	1	09/16/2021 1555	09/23/2021 1409	CR
Arsenic	0.0047		0.00050		mg/L	1	09/16/2021 1555	09/23/2021 1409	CR
Barium	0.017		0.00050		mg/L	1	09/16/2021 1555	09/23/2021 1409	CR
Beryllium	0.018		0.00025		mg/L	1	09/16/2021 1555	09/23/2021 1409	CR
Cadmium	0.060		0.00025		mg/L	1	09/16/2021 1555	09/23/2021 1409	CR
Chromium	0.0020		0.00050		mg/L	1	09/16/2021 1555	09/23/2021 1409	CR
Cobalt	0.25		0.00025		mg/L	1	09/16/2021 1555	09/23/2021 1409	CR
Copper	120		0.25		mg/L	500	09/16/2021 1555	09/27/2021 1310	CR
Lead	0.0040		0.00050		mg/L	1	09/16/2021 1555	09/23/2021 1409	CR
Manganese	26		0.025		mg/L	100	09/16/2021 1555	09/27/2021 1334	CR
Molybdenum	ND		0.00025		mg/L	1	09/16/2021 1555	09/23/2021 1409	CR
Nickel	0.079		0.00050		mg/L	1	09/16/2021 1555	09/23/2021 1409	CR
Selenium	0.075		0.0025		mg/L	1	09/16/2021 1555	09/23/2021 1409	CR
Silver	0.00075		0.00050		mg/L	1	09/16/2021 1555	09/23/2021 1409	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Lab Sample ID: 2110262-03

Client Sample ID: TTB-1 090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	0.00014	0.000023	0.00050	E4	mg/L	1	09/16/2021 1555	09/23/2021 1409	CR
Zinc	14		4.0		mg/L	100	09/16/2021 1555	09/27/2021 1334	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	0.000086	0.000041	0.0010	E4	mg/L	1	09/27/2021 1030	09/27/2021 1518	RAD
Turbidity-E180.1									
Turbidity	1300		10	H3	NTU	100	09/10/2021 1632	09/13/2021 0940	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.78		0.10		mg/L	1	09/20/2021 1130	09/22/2021 1211	MH
Calcium	290		4.0		mg/L	1	09/20/2021 1130	09/22/2021 1211	MH
Iron	540		3.0		mg/L	10	09/20/2021 1130	09/22/2021 1233	MH
Magnesium	130		3.0		mg/L	1	09/20/2021 1130	09/22/2021 1211	MH
Potassium	50		5.0		mg/L	1	09/20/2021 1130	09/22/2021 1211	MH
Silica	130		2.0		mg/L	10	09/20/2021 1130	09/22/2021 1233	MH
Sodium	ND		5.0		mg/L	1	09/20/2021 1130	09/22/2021 1211	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	140		20		mg/L	500	09/17/2021 1030	09/21/2021 1224	CR
Antimony	0.0025		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1108	CR
Arsenic	0.063		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1108	CR
Barium	0.52		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1108	CR
Beryllium	0.017		0.0025		mg/L	10	09/17/2021 1030	09/21/2021 1245	CR
Cadmium	0.045		0.00025		mg/L	1	09/17/2021 1030	09/21/2021 1108	CR
Chromium	0.074		0.0050		mg/L	10	09/17/2021 1030	09/22/2021 1314	CR
Cobalt	0.207		0.00250		mg/L	10	09/17/2021 1030	09/21/2021 1245	CR
Copper	150		0.25		mg/L	500	09/17/2021 1030	09/21/2021 1224	CR
Lead	0.58		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1108	CR
Manganese	21		0.025		mg/L	100	09/17/2021 1030	09/21/2021 1235	CR
Molybdenum	0.13		0.00025		mg/L	1	09/17/2021 1030	09/21/2021 1108	CR
Nickel	0.095		0.0050		mg/L	10	09/17/2021 1030	09/21/2021 1245	CR
Selenium	0.10		0.0025		mg/L	1	09/17/2021 1030	09/21/2021 1108	CR
Silver	0.046		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1108	CR
Thallium	0.0028		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1108	CR
Uranium	0.042		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1108	CR
Zinc	8.8		0.40		mg/L	10	09/17/2021 1030	09/21/2021 1245	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Lab Sample ID: 2110262-03

Client Sample ID: TTB-1 090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	0.0012		0.0010		mg/L	1	09/23/2021 1015	09/23/2021 1542	RAD
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	1.9		1.0		mg/L	1	09/10/2021 1410	09/11/2021 0452	JG
Fluoride	32		5.0		mg/L	10	09/10/2021 1410	09/20/2021 2250	JG
Nitrogen, Nitrate (As N)	1.1		0.50	H3	mg/L	1	09/10/2021 1410	09/11/2021 0452	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	09/10/2021 1410	09/11/2021 0452	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	H3	mg/L	1	09/10/2021 1410	09/11/2021 0452	JG
Sulfate	3800		500		mg/L	100	09/10/2021 1410	09/20/2021 2309	JG
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	10		5.0		mg/L	10	09/18/2021 1030	09/20/2021 1610	JG
Specific Conductance-SM2510 B									
Conductivity	6400		5.0		µmhos/cm	50	09/14/2021 1130	09/14/2021 1145	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	2800		20		mg/L	1	09/10/2021 0818	09/14/2021 1310	AGC
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	850		10		mg/L	1	09/10/2021 0815	09/13/2021 1615	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	1.4		0.50		mg/L	1	09/15/2021 1030	09/15/2021 1632	JG
Silica-SM4500-SiO2 C									
Silica	15		2.0		mg/L	1	09/22/2021 1030	09/22/2021 1213	AGC
pH-SW9045D									
pH (pH Units)	3.2			H5	-	1	09/13/2021 1445	09/13/2021 1547	CWB
Temperature (°C)	20			H5	-	1	09/13/2021 1445	09/13/2021 1547	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 21I0262
Lab Sample ID: 21I0262-03

Client Sample ID: TTB-1 090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
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Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Lab Sample ID: 2110262-04

Client Sample ID: D4b-1b090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	68		22		mg/L	1	09/16/2021 1555	09/21/2021 1045	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	2400				mg/L	1	09/20/2021 1130	09/22/2021 1214	MH
Total Nitrogen (NO2+NO3+TKN)-Calculation									
Nitrogen, Total	28				mg/L	10	09/18/2021 1030	09/20/2021 1610	JG
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	ND		0.10		mg/L	1	09/10/2021 1410	09/11/2021 0511	JG
ICP Dissolved Metals-E 200.7 (4.4)									
Boron	0.028	0.0032	0.10	E4	mg/L	1	09/16/2021 1555	09/21/2021 1045	MH
Calcium	27		4.0		mg/L	1	09/16/2021 1555	09/21/2021 1045	MH
Iron	ND		0.30		mg/L	1	09/16/2021 1555	09/21/2021 1045	MH
Magnesium	ND		3.0		mg/L	1	09/16/2021 1555	09/21/2021 1045	MH
Potassium	ND		5.0		mg/L	1	09/16/2021 1555	09/21/2021 1045	MH
Silica	9.1		0.20		mg/L	1	09/16/2021 1555	09/21/2021 1045	MH
Sodium	ND		5.0		mg/L	1	09/16/2021 1555	09/21/2021 1045	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Aluminum	ND		0.040		mg/L	1	09/16/2021 1555	09/23/2021 1413	CR
Antimony	0.0015		0.00050		mg/L	1	09/16/2021 1555	09/23/2021 1413	CR
Arsenic	0.0013		0.00050		mg/L	1	09/16/2021 1555	09/23/2021 1413	CR
Barium	0.010		0.00050		mg/L	1	09/16/2021 1555	09/23/2021 1413	CR
Beryllium	ND		0.00025		mg/L	1	09/16/2021 1555	09/23/2021 1413	CR
Cadmium	ND		0.00025		mg/L	1	09/16/2021 1555	09/23/2021 1413	CR
Chromium	ND		0.00050		mg/L	1	09/16/2021 1555	09/23/2021 1413	CR
Cobalt	ND		0.00025		mg/L	1	09/16/2021 1555	09/23/2021 1413	CR
Copper	0.13		0.00050		mg/L	1	09/16/2021 1555	09/23/2021 1413	CR
Lead	ND		0.00050		mg/L	1	09/16/2021 1555	09/23/2021 1413	CR
Manganese	0.055		0.00025		mg/L	1	09/16/2021 1555	09/27/2021 1313	CR
Molybdenum	0.012		0.00025		mg/L	1	09/16/2021 1555	09/23/2021 1413	CR
Nickel	0.00078		0.00050		mg/L	1	09/16/2021 1555	09/23/2021 1413	CR
Selenium	ND	0.00025	0.0025	E8	mg/L	1	09/16/2021 1555	09/23/2021 1413	CR
Silver	0.00021	0.000021	0.00050	E4	mg/L	1	09/16/2021 1555	09/23/2021 1413	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Lab Sample ID: 2110262-04

Client Sample ID: D4b-1b090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Thallium	ND	0.000023	0.00050	E8	mg/L	1	09/16/2021 1555	09/23/2021 1413	CR
Zinc	ND		0.040		mg/L	1	09/16/2021 1555	09/23/2021 1413	CR
CVAA Dissolved Mercury-E 245.1									
Mercury	0.000059	0.000041	0.0010	E4	mg/L	1	09/27/2021 1030	09/27/2021 1520	RAD
Turbidity-E180.1									
Turbidity	2000		20	H3	NTU	200	09/10/2021 1632	09/13/2021 0940	CWB
ICP Total Metals-E200.7 (4.4)									
Boron	0.58		0.10		mg/L	1	09/20/2021 1130	09/22/2021 1214	MH
Calcium	740		4.0		mg/L	1	09/20/2021 1130	09/22/2021 1214	MH
Iron	320		3.0		mg/L	10	09/20/2021 1130	09/22/2021 1236	MH
Magnesium	130		3.0		mg/L	1	09/20/2021 1130	09/22/2021 1214	MH
Potassium	36		5.0		mg/L	1	09/20/2021 1130	09/22/2021 1214	MH
Silica	180		2.0		mg/L	10	09/20/2021 1130	09/22/2021 1236	MH
Sodium	ND		5.0		mg/L	1	09/20/2021 1130	09/22/2021 1214	MH
ICP/MS Total Metals-E200.8 (5.4)									
Aluminum	110		20		mg/L	500	09/17/2021 1030	09/21/2021 1228	CR
Antimony	0.00097		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1111	CR
Arsenic	0.019		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1111	CR
Barium	0.53		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1111	CR
Beryllium	0.018		0.00025		mg/L	1	09/17/2021 1030	09/21/2021 1111	CR
Cadmium	0.024		0.00025		mg/L	1	09/17/2021 1030	09/21/2021 1111	CR
Chromium	0.083		0.0050		mg/L	10	09/17/2021 1030	09/22/2021 1318	CR
Cobalt	0.0713		0.00250		mg/L	10	09/17/2021 1030	09/21/2021 1249	CR
Copper	66		0.050		mg/L	100	09/17/2021 1030	09/21/2021 1238	CR
Lead	0.40		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1111	CR
Manganese	16		0.025		mg/L	100	09/17/2021 1030	09/21/2021 1238	CR
Molybdenum	0.033		0.00025		mg/L	1	09/17/2021 1030	09/21/2021 1111	CR
Nickel	0.084		0.0050		mg/L	10	09/17/2021 1030	09/21/2021 1249	CR
Selenium	0.049		0.0025		mg/L	1	09/17/2021 1030	09/21/2021 1111	CR
Silver	0.066		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1111	CR
Thallium	0.0017		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1111	CR
Uranium	0.016		0.00050		mg/L	1	09/17/2021 1030	09/21/2021 1111	CR
Zinc	4.4		0.40		mg/L	10	09/17/2021 1030	09/21/2021 1249	CR

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Lab Sample ID: 2110262-04

Client Sample ID: D4b-1b090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
CVAA Total Mercury-E245.1									
Mercury	0.0013		0.0010		mg/L	1	09/23/2021 1015	09/23/2021 1545	RAD
Anions by Ion Chromatography-E300.0 (2.1)									
Chloride	1.5		1.0		mg/L	1	09/10/2021 1410	09/11/2021 0511	JG
Fluoride	ND		0.50		mg/L	1	09/10/2021 1410	09/11/2021 0511	JG
Nitrogen, Nitrate (As N)	ND		0.50	H3	mg/L	1	09/10/2021 1410	09/11/2021 0511	JG
Nitrogen, Nitrite (As N)	ND		0.10	H3	mg/L	1	09/10/2021 1410	09/11/2021 0511	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND		0.50	H3	mg/L	1	09/10/2021 1410	09/11/2021 0511	JG
Sulfate	7.0		5.0		mg/L	1	09/10/2021 1410	09/11/2021 0511	JG
Calculation-Ion Balance									
Anion	9.30				meq/L	1	09/28/2021 1324	09/28/2021 1326	KB
Cation	1.35				meq/L	1	09/28/2021 1324	09/28/2021 1326	KB
Cation/Anion, % Difference	74.6				meq/L	1	09/28/2021 1324	09/28/2021 1326	KB
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	28		5.0		mg/L	10	09/18/2021 1030	09/20/2021 1610	JG
Alkalinity-SM2320B									
Alkalinity, Bicarbonate (As CaCO3)	440		2.0		mg/L	1	09/15/2021 1123	09/16/2021 1235	AGC
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	09/15/2021 1123	09/16/2021 1235	AGC
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	09/15/2021 1123	09/16/2021 1235	AGC
Alkalinity, Phenolphthalein (As CaCO3)	ND		2.0		mg/L	1	09/15/2021 1123	09/16/2021 1235	AGC
Alkalinity, Total (As CaCO3)	440		2.0		mg/L	1	09/15/2021 1123	09/16/2021 1235	AGC
Specific Conductance-SM2510 B									
Conductivity	190		0.10		µmhos/cm	1	09/13/2021 1600	09/13/2021 1630	CWB
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	110		20		mg/L	1	09/10/2021 0818	09/14/2021 1310	AGC

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Lab Sample ID: 2110262-04

Client Sample ID: D4b-1b090521
Collection Date/Time: 09/05/2021 2110
Matrix: Storm Water
Order Name: Baseline Stormwater Monitoring

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	5500		10		mg/L	1	09/10/2021 0815	09/13/2021 1615	AGC
Ammonia as N-SM4500-NH3 B,C									
Nitrogen, Ammonia (As N)	0.58		0.50		mg/L	1	09/15/2021 1030	09/15/2021 1632	JG
Silica-SM4500-SiO2 C									
Silica	12		2.0		mg/L	1	09/22/2021 1030	09/22/2021 1213	AGC
pH-SW9045D									
pH (pH Units)	8.0			H5	-	1	09/13/2021 1445	09/13/2021 1548	CWB
Temperature (°C)	21			H5	-	1	09/13/2021 1445	09/13/2021 1548	CWB

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Date Received: 09/09/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109211 - E 200.8 (5.4)										
Blank (2109211-BLK1)										
					Prepared: 09/16/2021 Analyzed: 09/23/2021					
Aluminum	ND	0.040	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.00025	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0025	mg/L							
Silver	ND	0.00050	mg/L							
Thallium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

LCS (2109211-BS1)										
					Prepared: 09/16/2021 Analyzed: 09/23/2021					
Aluminum	0.099	0.040	mg/L	0.1000		99	85-115			
Antimony	0.046	0.00050	mg/L	0.05000		92	85-115			
Arsenic	0.048	0.00050	mg/L	0.05000		95	85-115			
Barium	0.047	0.00050	mg/L	0.05000		94	85-115			
Beryllium	0.049	0.00025	mg/L	0.05000		99	85-115			
Cadmium	0.046	0.00025	mg/L	0.05000		92	85-115			
Chromium	0.046	0.00050	mg/L	0.05000		92	85-115			
Cobalt	0.045	0.00025	mg/L	0.05000		90	85-115			
Copper	0.046	0.00050	mg/L	0.05000		91	85-115			
Lead	0.045	0.00050	mg/L	0.05000		90	85-115			
Manganese	0.049	0.00025	mg/L	0.05000		98	85-115			
Molybdenum	0.046	0.00025	mg/L	0.05000		91	85-115			
Nickel	0.046	0.00050	mg/L	0.05000		93	85-115			
Selenium	0.053	0.0025	mg/L	0.05000		107	85-115			
Silver	0.045	0.00050	mg/L	0.05000		90	85-115			
Thallium	0.046	0.00050	mg/L	0.05000		92	85-115			
Zinc	0.098	0.040	mg/L	0.1000		98	85-115			

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Date Received: 09/09/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch 2109211 - E 200.8 (5.4)

LCS Dup (2109211-BSD1)

Prepared: 09/16/2021 Analyzed: 09/23/2021

Aluminum	0.099	0.040	mg/L	0.1000		99	85-115	0.02	20	
Antimony	0.046	0.00050	mg/L	0.05000		92	85-115	0.2	20	
Arsenic	0.047	0.00050	mg/L	0.05000		94	85-115	2	20	
Barium	0.047	0.00050	mg/L	0.05000		95	85-115	0.4	20	
Beryllium	0.050	0.00025	mg/L	0.05000		100	85-115	0.7	20	
Cadmium	0.046	0.00025	mg/L	0.05000		92	85-115	0.03	20	
Chromium	0.047	0.00050	mg/L	0.05000		93	85-115	1	20	
Cobalt	0.046	0.00025	mg/L	0.05000		92	85-115	1	20	
Copper	0.046	0.00050	mg/L	0.05000		92	85-115	0.6	20	
Lead	0.044	0.00050	mg/L	0.05000		89	85-115	0.8	20	
Manganese	0.050	0.00025	mg/L	0.05000		99	85-115	1	20	
Molybdenum	0.046	0.00025	mg/L	0.05000		91	85-115	0.3	20	
Nickel	0.047	0.00050	mg/L	0.05000		94	85-115	1	20	
Selenium	0.048	0.0025	mg/L	0.05000		96	85-115	11	20	
Silver	0.045	0.00050	mg/L	0.05000		89	85-115	0.2	20	
Thallium	0.046	0.00050	mg/L	0.05000		92	85-115	0.5	20	
Zinc	0.098	0.040	mg/L	0.1000		98	85-115	0.4	20	

Matrix Spike (2109211-MS1)

Source: 2110390-02

Prepared: 09/16/2021 Analyzed: 09/27/2021

Aluminum	330	20	mg/L	0.1000	290	NR	70-130			M3
Antimony	0.045	0.00050	mg/L	0.05000	0.00027	89	70-130			
Arsenic	0.063	0.00050	mg/L	0.05000	0.016	94	70-130			
Barium	0.056	0.00050	mg/L	0.05000	0.0032	106	70-130			
Beryllium	0.076	0.00025	mg/L	0.05000	0.044	64	70-130			M2
Cadmium	2.6	0.13	mg/L	0.05000	2.3	651	70-130			
Chromium	0.053	0.00050	mg/L	0.05000	0.0078	90	70-130			
Cobalt	1.7	0.13	mg/L	0.05000	1.5	456	70-130			
Copper	0.42	0.00050	mg/L	0.05000	0.38	70	70-130			M2
Lead	1.1	0.25	mg/L	0.05000	0.91	316	70-130			
Manganese	120	0.13	mg/L	0.05000	100	NR	70-130			
Molybdenum	0.049	0.00025	mg/L	0.05000	0.00019	98	70-130			
Nickel	2.3	0.25	mg/L	0.05000	2.0	619	70-130			
Selenium	0.31	0.0025	mg/L	0.05000	0.24	145	70-130			M1
Silver	0.030	0.00050	mg/L	0.05000	0.000034	60	70-130			M2
Thallium	0.056	0.00050	mg/L	0.05000	0.0026	107	70-130			
Zinc	150	20	mg/L	0.1000	130	NR	70-130			

Batch 2109214 - E 200.7 (4.4)

Blank (2109214-BLK1)

Prepared: 09/17/2021 Analyzed: 09/21/2021

Boron	ND	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	ND	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	ND	0.20	mg/L							
Sodium	ND	5.0	mg/L							

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Date Received: 09/09/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109214 - E 200.7 (4.4)										
LCS (2109214-BS1) Prepared: 09/17/2021 Analyzed: 09/21/2021										
Boron	1.0	0.10	mg/L	1.000		102	85-115			
Calcium	10	4.0	mg/L	10.00		101	85-115			
Iron	1.0	0.30	mg/L	1.000		100	85-115			
Magnesium	10	3.0	mg/L	10.00		101	85-115			
Potassium	9.9	5.0	mg/L	10.00		99	85-115			
Sodium	9.7	5.0	mg/L	10.00		97	85-115			
LCS (2109214-BS2) Prepared: 09/17/2021 Analyzed: 09/21/2021										
Silica	2.2	0.20	mg/L	2.143		101	85-115			
LCS Dup (2109214-BSD1) Prepared: 09/17/2021 Analyzed: 09/21/2021										
Boron	1.0	0.10	mg/L	1.000		103	85-115	1	20	
Calcium	10	4.0	mg/L	10.00		100	85-115	2	20	
Iron	0.99	0.30	mg/L	1.000		99	85-115	0.7	20	
Magnesium	10	3.0	mg/L	10.00		101	85-115	0.5	20	
Potassium	10	5.0	mg/L	10.00		101	85-115	2	20	
Sodium	10	5.0	mg/L	10.00		101	85-115	4	20	
LCS Dup (2109214-BSD2) Prepared: 09/17/2021 Analyzed: 09/21/2021										
Silica	2.2	0.20	mg/L	2.143		101	85-115	0.2	20	
Matrix Spike (2109214-MS1) Source: 2110483-01 Prepared: 09/17/2021 Analyzed: 09/21/2021										
Boron	1.4	0.10	mg/L	1.000	0.067	129	70-130			
Calcium	74	4.0	mg/L	10.00	65	92	70-130			
Iron	1.1	0.30	mg/L	1.000	0.025	110	70-130			
Magnesium	25	3.0	mg/L	10.00	15	105	70-130			
Potassium	12	5.0	mg/L	10.00	1.2	110	70-130			
Sodium	31	5.0	mg/L	10.00	21	102	70-130			
Matrix Spike (2109214-MS2) Source: 2110261-03 Prepared: 09/17/2021 Analyzed: 09/21/2021										
Boron	1.1	0.10	mg/L	1.000	0.019	111	70-130			
Calcium	36	4.0	mg/L	10.00	27	89	70-130			
Iron	1.0	0.30	mg/L	1.000	0.012	104	70-130			
Magnesium	13	3.0	mg/L	10.00	2.4	102	70-130			
Potassium	14	5.0	mg/L	10.00	3.8	106	70-130			
Sodium	12	5.0	mg/L	10.00	1.0	108	70-130			
Matrix Spike (2109214-MS3) Source: 2110483-01 Prepared: 09/17/2021 Analyzed: 09/21/2021										
Silica	29	0.20	mg/L	2.143	27	80	70-130			
Matrix Spike (2109214-MS4) Source: 2110261-03 Prepared: 09/17/2021 Analyzed: 09/21/2021										
Silica	11	0.20	mg/L	2.143	8.9	96	70-130			
Batch 2109221 - E 200.8 (5.4)										

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Date Received: 09/09/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch 2109221 - E 200.8 (5.4)

Blank (2109221-BLK1)

Prepared & Analyzed: 09/17/2021

Aluminum	ND	0.040	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.00025	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0025	mg/L							
Silver	ND	0.00050	mg/L							
Thallium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

LCS (2109221-BS1)

Prepared & Analyzed: 09/17/2021

Aluminum	0.099	0.040	mg/L	0.1000		99	85-115			
Antimony	0.047	0.00050	mg/L	0.05000		94	85-115			
Arsenic	0.048	0.00050	mg/L	0.05000		95	85-115			
Barium	0.049	0.00050	mg/L	0.05000		97	85-115			
Beryllium	0.048	0.00025	mg/L	0.05000		95	85-115			
Cadmium	0.049	0.00025	mg/L	0.05000		98	85-115			
Chromium	0.048	0.00050	mg/L	0.05000		95	85-115			
Cobalt	0.047	0.00025	mg/L	0.05000		94	85-115			
Copper	0.047	0.00050	mg/L	0.05000		93	85-115			
Lead	0.047	0.00050	mg/L	0.05000		95	85-115			
Manganese	0.048	0.00025	mg/L	0.05000		96	85-115			
Molybdenum	0.048	0.00025	mg/L	0.05000		97	85-115			
Nickel	0.048	0.00050	mg/L	0.05000		96	85-115			
Selenium	0.049	0.0025	mg/L	0.05000		97	85-115			
Silver	0.044	0.00050	mg/L	0.05000		88	85-115			
Thallium	0.050	0.00050	mg/L	0.05000		100	85-115			
Zinc	0.098	0.040	mg/L	0.1000		98	85-115			

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Date Received: 09/09/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch 2109221 - E 200.8 (5.4)

LCS Dup (2109221-BS1)

Prepared & Analyzed: 09/17/2021

Aluminum	0.10	0.040	mg/L	0.1000		100	85-115	1	20	
Antimony	0.047	0.00050	mg/L	0.05000		95	85-115	0.4	20	
Arsenic	0.048	0.00050	mg/L	0.05000		95	85-115	0.2	20	
Barium	0.049	0.00050	mg/L	0.05000		97	85-115	0.3	20	
Beryllium	0.048	0.00025	mg/L	0.05000		97	85-115	1	20	
Cadmium	0.049	0.00025	mg/L	0.05000		98	85-115	0.2	20	
Chromium	0.047	0.00050	mg/L	0.05000		94	85-115	0.7	20	
Cobalt	0.047	0.00025	mg/L	0.05000		95	85-115	0.2	20	
Copper	0.047	0.00050	mg/L	0.05000		94	85-115	0.8	20	
Lead	0.048	0.00050	mg/L	0.05000		95	85-115	0.6	20	
Manganese	0.048	0.00025	mg/L	0.05000		96	85-115	0.2	20	
Molybdenum	0.049	0.00025	mg/L	0.05000		98	85-115	1	20	
Nickel	0.048	0.00050	mg/L	0.05000		95	85-115	0.7	20	
Selenium	0.047	0.0025	mg/L	0.05000		95	85-115	3	20	
Silver	0.044	0.00050	mg/L	0.05000		89	85-115	1	20	
Thallium	0.048	0.00050	mg/L	0.05000		96	85-115	5	20	
Zinc	0.099	0.040	mg/L	0.1000		99	85-115	1	20	

Matrix Spike (2109221-MS1)

Source: 2110106-01

Prepared & Analyzed: 09/17/2021

Aluminum	0.14	0.040	mg/L	0.1000	ND	137	70-130			M1
Antimony	0.061	0.00050	mg/L	0.05000	0.00071	120	70-130			
Arsenic	0.063	0.00050	mg/L	0.05000	0.0025	121	70-130			
Barium	0.093	0.00050	mg/L	0.05000	0.034	116	70-130			
Beryllium	0.061	0.00025	mg/L	0.05000	ND	122	70-130			
Cadmium	0.060	0.00025	mg/L	0.05000	0.000057	120	70-130			
Chromium	0.057	0.00050	mg/L	0.05000	0.00043	113	70-130			
Cobalt	0.055	0.00025	mg/L	0.05000	0.00010	111	70-130			
Copper	0.061	0.00050	mg/L	0.05000	0.0073	108	70-130			
Lead	0.058	0.00050	mg/L	0.05000	0.000096	116	70-130			
Manganese	0.084	0.00025	mg/L	0.05000	0.029	110	70-130			
Molybdenum	0.061	0.00025	mg/L	0.05000	0.0021	119	70-130			
Nickel	0.055	0.00050	mg/L	0.05000	0.00073	109	70-130			
Selenium	0.065	0.0025	mg/L	0.05000	0.00036	130	70-130			
Silver	0.044	0.00050	mg/L	0.05000	ND	88	70-130			
Thallium	0.048	0.00050	mg/L	0.05000	ND	96	70-130			
Zinc	0.13	0.040	mg/L	0.1000	0.0046	123	70-130			

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Date Received: 09/09/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109221 - E 200.8 (5.4)										
Matrix Spike (2109221-MS2)		Source: 2110230-01			Prepared & Analyzed: 09/17/2021					
Aluminum	0.13	0.040	mg/L	0.1000	ND	128	70-130			
Antimony	0.057	0.00050	mg/L	0.05000	0.00013	113	70-130			
Arsenic	0.062	0.00050	mg/L	0.05000	0.0031	119	70-130			
Barium	0.29	0.00050	mg/L	0.05000	0.25	86	70-130			
Beryllium	0.057	0.00025	mg/L	0.05000	ND	114	70-130			
Cadmium	0.055	0.00025	mg/L	0.05000	ND	111	70-130			
Chromium	0.054	0.00050	mg/L	0.05000	0.00014	108	70-130			
Cobalt	0.061	0.00025	mg/L	0.05000	0.0085	106	70-130			
Copper	0.054	0.00050	mg/L	0.05000	0.0043	100	70-130			
Lead	0.057	0.00050	mg/L	0.05000	0.00018	114	70-130			
Manganese	3.6	0.025	mg/L	0.05000	3.7	NR	70-130			M3
Molybdenum	0.065	0.00025	mg/L	0.05000	0.0074	115	70-130			
Nickel	0.057	0.00050	mg/L	0.05000	0.0054	102	70-130			
Selenium	0.062	0.0025	mg/L	0.05000	0.00037	124	70-130			
Silver	0.038	0.00050	mg/L	0.05000	0.000021	75	70-130			
Thallium	0.050	0.00050	mg/L	0.05000	ND	101	70-130			
Zinc	0.12	0.040	mg/L	0.1000	0.011	109	70-130			

Batch 2109242 - E200.8 (5.4)

Blank (2109242-BLK1)				Prepared: 09/17/2021 Analyzed: 09/20/2021						
Aluminum	ND	0.040	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.000250	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0025	mg/L							
Silver	ND	0.00050	mg/L							
Thallium	ND	0.00050	mg/L							
Uranium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Date Received: 09/09/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109242 - E200.8 (5.4)										
LCS (2109242-BS1)										
					Prepared: 09/17/2021 Analyzed: 09/20/2021					
Aluminum	0.10	0.040	mg/L	0.1000		104	85-115			
Antimony	0.049	0.00050	mg/L	0.05000		98	85-115			
Arsenic	0.048	0.00050	mg/L	0.05000		96	85-115			
Barium	0.049	0.00050	mg/L	0.05000		98	85-115			
Beryllium	0.049	0.00025	mg/L	0.05000		98	85-115			
Cadmium	0.048	0.00025	mg/L	0.05000		96	85-115			
Chromium	0.049	0.00050	mg/L	0.05000		97	85-115			
Cobalt	0.0486	0.000250	mg/L	0.05000		97	85-115			
Copper	0.048	0.00050	mg/L	0.05000		95	85-115			
Lead	0.046	0.00050	mg/L	0.05000		92	85-115			
Manganese	0.049	0.00025	mg/L	0.05000		97	85-115			
Molybdenum	0.048	0.00025	mg/L	0.05000		96	85-115			
Nickel	0.050	0.00050	mg/L	0.05000		100	85-115			
Selenium	0.046	0.0025	mg/L	0.05000		91	85-115			
Silver	0.045	0.00050	mg/L	0.05000		90	85-115			
Thallium	0.047	0.00050	mg/L	0.05000		93	85-115			
Uranium	0.048	0.00050	mg/L	0.05000		97	85-115			
Zinc	0.10	0.040	mg/L	0.1000		101	85-115			

LCS Dup (2109242-BS1)										
					Prepared: 09/17/2021 Analyzed: 09/20/2021					
Aluminum	0.10	0.040	mg/L	0.1000		104	85-115	0.4	20	
Antimony	0.049	0.00050	mg/L	0.05000		99	85-115	0.7	20	
Arsenic	0.048	0.00050	mg/L	0.05000		97	85-115	0.2	20	
Barium	0.049	0.00050	mg/L	0.05000		98	85-115	0.9	20	
Beryllium	0.049	0.00025	mg/L	0.05000		99	85-115	0.3	20	
Cadmium	0.049	0.00025	mg/L	0.05000		97	85-115	2	20	
Chromium	0.049	0.00050	mg/L	0.05000		98	85-115	0.9	20	
Cobalt	0.0483	0.000250	mg/L	0.05000		97	85-115	0.7	20	
Copper	0.048	0.00050	mg/L	0.05000		96	85-115	0.6	20	
Lead	0.047	0.00050	mg/L	0.05000		93	85-115	0.8	20	
Manganese	0.049	0.00025	mg/L	0.05000		98	85-115	0.4	20	
Molybdenum	0.049	0.00025	mg/L	0.05000		97	85-115	1	20	
Nickel	0.050	0.00050	mg/L	0.05000		99	85-115	0.08	20	
Selenium	0.047	0.0025	mg/L	0.05000		93	85-115	2	20	
Silver	0.045	0.00050	mg/L	0.05000		90	85-115	0.06	20	
Thallium	0.048	0.00050	mg/L	0.05000		96	85-115	2	20	
Uranium	0.049	0.00050	mg/L	0.05000		98	85-115	1	20	
Zinc	0.10	0.040	mg/L	0.1000		103	85-115	2	20	

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109242 - E200.8 (5.4)										
Matrix Spike (2109242-MS1) Source: 2110458-02 Prepared: 09/17/2021 Analyzed: 09/20/2021										
Aluminum	0.15	0.040	mg/L	0.1000	0.050	95	70-130			
Antimony	0.055	0.00050	mg/L	0.05000	0.00040	110	70-130			
Arsenic	0.056	0.00050	mg/L	0.05000	0.0043	103	70-130			
Barium	0.075	0.00050	mg/L	0.05000	0.016	119	70-130			
Beryllium	0.043	0.00025	mg/L	0.05000	0.00045	85	70-130			
Cadmium	0.058	0.00025	mg/L	0.05000	0.0075	100	70-130			
Chromium	0.049	0.00050	mg/L	0.05000	0.00017	97	70-130			
Cobalt	0.0696	0.000250	mg/L	0.05000	0.0228	93	70-130			
Copper	0.042	0.00050	mg/L	0.05000	0.00036	82	70-130			
Lead	0.058	0.00050	mg/L	0.05000	0.0053	105	70-130			
Manganese	18	0.013	mg/L	0.05000	23	NR	70-130			M3
Molybdenum	0.059	0.00025	mg/L	0.05000	0.00068	116	70-130			
Nickel	0.081	0.00050	mg/L	0.05000	0.036	91	70-130			
Selenium	0.048	0.0025	mg/L	0.05000	0.00082	94	70-130			
Silver	0.042	0.00050	mg/L	0.05000	ND	85	70-130			
Thallium	0.055	0.00050	mg/L	0.05000	0.00035	110	70-130			
Uranium	0.060	0.00050	mg/L	0.05000	0.00090	119	70-130			
Zinc	3.7	2.0	mg/L	0.1000	4.8	NR	70-130			M3
Matrix Spike (2109242-MS2) Source: 2110459-02 Prepared: 09/17/2021 Analyzed: 09/20/2021										
Aluminum	0.25	0.040	mg/L	0.1000	0.15	102	70-130			
Antimony	0.051	0.00050	mg/L	0.05000	0.00024	101	70-130			
Arsenic	0.051	0.00050	mg/L	0.05000	0.00083	101	70-130			
Barium	0.068	0.00050	mg/L	0.05000	0.014	107	70-130			
Beryllium	0.046	0.00025	mg/L	0.05000	0.00016	92	70-130			
Cadmium	0.087	0.00025	mg/L	0.05000	0.040	92	70-130			
Chromium	0.052	0.00050	mg/L	0.05000	0.0033	97	70-130			
Cobalt	0.0564	0.000250	mg/L	0.05000	0.00764	98	70-130			
Copper	0.053	0.00050	mg/L	0.05000	0.0086	88	70-130			
Lead	0.057	0.00050	mg/L	0.05000	0.0040	107	70-130			
Manganese	47	0.025	mg/L	0.05000	48	NR	70-130			
Molybdenum	0.056	0.00025	mg/L	0.05000	0.00083	111	70-130			
Nickel	0.080	0.00050	mg/L	0.05000	0.033	94	70-130			
Selenium	0.051	0.0025	mg/L	0.05000	0.0032	95	70-130			
Silver	0.040	0.00050	mg/L	0.05000	ND	81	70-130			
Thallium	0.054	0.00050	mg/L	0.05000	0.00032	108	70-130			
Uranium	0.060	0.00050	mg/L	0.05000	0.00056	118	70-130			
Zinc	6.4	4.0	mg/L	0.1000	6.4	43	70-130			M3
Batch 2109256 - E200.7 (4.4)										
Blank (2109256-BLK1) Prepared: 09/20/2021 Analyzed: 09/22/2021										
Boron	ND	0.10	mg/L							
Calcium	ND	4.0	mg/L							
Iron	0.0055	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Silica	0.012	0.20	mg/L							
Sodium	ND	5.0	mg/L							

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Qual
Batch 2109256 - E200.7 (4.4)										
LCS (2109256-BS1)				Prepared: 09/20/2021 Analyzed: 09/22/2021						
Boron	1.0	0.10	mg/L	1.000		101	85-115			
Calcium	10	4.0	mg/L	10.00		103	85-115			
Iron	1.0	0.30	mg/L	1.000		105	85-115			
Magnesium	10	3.0	mg/L	10.00		100	85-115			
Potassium	10	5.0	mg/L	10.00		100	85-115			
Sodium	10	5.0	mg/L	10.00		105	85-115			
LCS (2109256-BS2)				Prepared: 09/20/2021 Analyzed: 09/22/2021						
Silica	9.8	0.20	mg/L	10.00		98	85-115			
LCS Dup (2109256-BSD1)				Prepared: 09/20/2021 Analyzed: 09/22/2021						
Boron	1.0	0.10	mg/L	1.000		101	85-115	0.4	20	
Calcium	10	4.0	mg/L	10.00		104	85-115	0.6	20	
Iron	1.0	0.30	mg/L	1.000		103	85-115	1	20	
Magnesium	10	3.0	mg/L	10.00		100	85-115	0.3	20	
Potassium	10	5.0	mg/L	10.00		100	85-115	0.1	20	
Sodium	10	5.0	mg/L	10.00		104	85-115	0.3	20	
LCS Dup (2109256-BSD2)				Prepared: 09/20/2021 Analyzed: 09/22/2021						
Silica	10	0.20	mg/L	10.00		100	85-115	1	20	
Matrix Spike (2109256-MS1)				Source: 2110092-01		Prepared: 09/20/2021 Analyzed: 09/22/2021				
Boron	1.4	0.10	mg/L	1.000	0.37	103	70-130			
Calcium	120	4.0	mg/L	10.00	110	74	70-130			
Iron	2.2	0.30	mg/L	1.000	1.2	97	70-130			
Magnesium	25	3.0	mg/L	10.00	16	94	70-130			
Potassium	17	5.0	mg/L	10.00	6.0	109	70-130			
Sodium	120	5.0	mg/L	10.00	110	70	70-130			
Matrix Spike (2109256-MS2)				Source: 2110095-01		Prepared: 09/20/2021 Analyzed: 09/22/2021				
Boron	1.0	0.10	mg/L	1.000	0.0096	103	70-130			
Calcium	12	4.0	mg/L	10.00	1.9	102	70-130			
Iron	1.0	0.30	mg/L	1.000	0.20	83	70-130			
Magnesium	10	3.0	mg/L	10.00	0.31	99	70-130			
Potassium	10	5.0	mg/L	10.00	ND	103	70-130			
Sodium	23	5.0	mg/L	10.00	12	101	70-130			
Matrix Spike (2109256-MS3)				Source: 2110092-01		Prepared: 09/20/2021 Analyzed: 09/22/2021				
Silica	46	0.20	mg/L	10.00	38	78	70-130			
Matrix Spike (2109256-MS4)				Source: 2110095-01		Prepared: 09/20/2021 Analyzed: 09/22/2021				
Silica	10	0.20	mg/L	10.00	0.19	98	70-130			
Batch 2109292 - E245.1										
Blank (2109292-BLK1)				Prepared & Analyzed: 09/23/2021						
Mercury	ND	0.0010	mg/L							
LCS (2109292-BS1)				Prepared & Analyzed: 09/23/2021						
Mercury	0.0052	0.0010	mg/L	0.005000		103	85-115			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109292 - E245.1										
LCS Dup (2109292-BSD1)				Prepared & Analyzed: 09/23/2021						
Mercury	0.0052	0.0010	mg/L	0.005000		105	85-115	2	20	
Matrix Spike (2109292-MS1)				Source: 2110292-01		Prepared & Analyzed: 09/23/2021				
Mercury	0.0050	0.0010	mg/L	0.005000	ND	101	70-130			
Matrix Spike (2109292-MS2)				Source: 2110294-01		Prepared & Analyzed: 09/23/2021				
Mercury	0.0051	0.0010	mg/L	0.005000	ND	102	70-130			
Matrix Spike Dup (2109292-MSD1)				Source: 2110292-01		Prepared & Analyzed: 09/23/2021				
Mercury	0.0050	0.0010	mg/L	0.005000	ND	101	70-130	0.09	20	
Matrix Spike Dup (2109292-MSD2)				Source: 2110294-01		Prepared & Analyzed: 09/23/2021				
Mercury	0.0041	0.0010	mg/L	0.005000	ND	82	70-130	21	20	M2, R9
Batch 2109322 - E 245.1										
Blank (2109322-BLK1)				Prepared & Analyzed: 09/27/2021						
Mercury	0.000072	0.0010	mg/L							
LCS (2109322-BS1)				Prepared & Analyzed: 09/27/2021						
Mercury	0.0051	0.0010	mg/L	0.005000		101	85-115			
LCS Dup (2109322-BSD1)				Prepared & Analyzed: 09/27/2021						
Mercury	0.0050	0.0010	mg/L	0.005000		100	85-115	2	20	
Matrix Spike (2109322-MS1)				Source: 2110483-01		Prepared & Analyzed: 09/27/2021				
Mercury	0.0049	0.0010	mg/L	0.005000	0.000071	97	70-130			
Matrix Spike (2109322-MS2)				Source: 2110483-02		Prepared & Analyzed: 09/27/2021				
Mercury	0.0051	0.0010	mg/L	0.005000	0.000058	101	70-130			
Matrix Spike Dup (2109322-MSD1)				Source: 2110483-01		Prepared & Analyzed: 09/27/2021				
Mercury	0.0050	0.0010	mg/L	0.005000	0.000071	99	70-130	2	20	
Matrix Spike Dup (2109322-MSD2)				Source: 2110483-02		Prepared & Analyzed: 09/27/2021				
Mercury	0.0050	0.0010	mg/L	0.005000	0.000058	99	70-130	2	20	

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109126 - SM2540 D										
Duplicate (2109126-DUP1) Source: 2110092-01 Prepared: 09/10/2021 Analyzed: 09/13/2021										
Total Suspended Solids	65	10	mg/L		46			34	5	R12
Duplicate (2109126-DUP2) Source: 2110088-01 Prepared: 09/10/2021 Analyzed: 09/13/2021										
Total Suspended Solids	31	10	mg/L		30			3	5	
Batch 2109127 - SM2540 C										
Duplicate (2109127-DUP1) Source: 2110004-01 Prepared: 09/10/2021 Analyzed: 09/13/2021										
Total Dissolved Solids (Residue, Filterable)	1100	20	mg/L		1100			0.4	5	
Duplicate (2109127-DUP2) Source: 2110264-01 Prepared: 09/10/2021 Analyzed: 09/14/2021										
Total Dissolved Solids (Residue, Filterable)	95000	20	mg/L		83000			13	5	N1
Duplicate (2109127-DUP3) Source: 2110292-01 Prepared: 09/10/2021 Analyzed: 09/13/2021										
Total Dissolved Solids (Residue, Filterable)	230	20	mg/L		230			0	5	
Batch 2109134 - E180.1										
Duplicate (2109134-DUP1) Source: 2110261-01 Prepared: 09/10/2021 Analyzed: 09/13/2021										
Turbidity	720	10	NTU		700			3	10	
Duplicate (2109134-DUP2) Source: 2110294-01 Prepared: 09/10/2021 Analyzed: 09/13/2021										
Turbidity	1.8	0.10	NTU		1.8			0	10	H1
Batch 2109140 - SM4500-SiO2 C										
Blank (2109140-BLK1) Prepared & Analyzed: 09/13/2021										
Silica	ND	2.0	mg/L							
LCS (2109140-BS1) Prepared & Analyzed: 09/13/2021										
Silica	8.5	2.0	mg/L		8.000	106	90-110			
LCS Dup (2109140-BSD1) Prepared & Analyzed: 09/13/2021										
Silica	8.3	2.0	mg/L		8.000	104	90-110	2	20	
Matrix Spike (2109140-MS1) Source: 2110106-05 Prepared & Analyzed: 09/13/2021										
Silica	65	10	mg/L		40.00	17	118	85-115		M1
Matrix Spike Dup (2109140-MSD1) Source: 2110106-05 Prepared & Analyzed: 09/13/2021										
Silica	64	10	mg/L		40.00	17	116	85-115	1	20
Batch 2109153 - SM2510 B										
LCS (2109153-BS1) Prepared & Analyzed: 09/13/2021										
Conductivity	150	0.10	µmhos/cm		141.2	108	0-200			
LCS Dup (2109153-BSD1) Prepared & Analyzed: 09/13/2021										
Conductivity	150	0.10	µmhos/cm		141.2	107	0-200	1	200	
Duplicate (2109153-DUP1) Source: 2110262-04 Prepared & Analyzed: 09/13/2021										
Conductivity	180	0.10	µmhos/cm		190			7	10	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109153 - SM2510 B										
Duplicate (2109153-DUP2)		Source: 2110231-01			Prepared & Analyzed: 09/13/2021					
Conductivity	550	0.10	µmhos/cm		540			2	10	
Batch 2109154 - SW9045D										
Duplicate (2109154-DUP1)		Source: 2110261-01			Prepared & Analyzed: 09/13/2021					
pH (pH Units)	8.1		-		8.1			0	200	H5
Temperature (°C)	22		-		22			0	200	H5
Duplicate (2109154-DUP2)		Source: 2110327-01			Prepared & Analyzed: 09/13/2021					
pH (pH Units)	7.7		-		7.7			0.1	200	H5
Temperature (°C)	23		-		23			0.4	200	H5
Batch 2109165 - SM2510 B										
LCS (2109165-BS1)					Prepared & Analyzed: 09/14/2021					
Conductivity	150	0.10	µmhos/cm	141.2		106	0-200			
LCS Dup (2109165-BSD1)					Prepared & Analyzed: 09/14/2021					
Conductivity	150	0.10	µmhos/cm	141.2		105	0-200	0.7	200	
Duplicate (2109165-DUP1)		Source: 2110230-04			Prepared & Analyzed: 09/14/2021					
Conductivity	210	0.10	µmhos/cm		210			3	10	
Batch 2109191 - SM2320B										
Blank (2109191-BLK1)					Prepared: 09/15/2021 Analyzed: 09/16/2021					
Alkalinity, Bicarbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Carbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Hydroxide (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Total (As CaCO3)	ND	2.0	mg/L							
LCS (2109191-BS1)					Prepared: 09/15/2021 Analyzed: 09/16/2021					
Alkalinity, Total (As CaCO3)	250	2.0	mg/L	250.0		100	90-110			
LCS Dup (2109191-BSD1)					Prepared: 09/15/2021 Analyzed: 09/16/2021					
Alkalinity, Total (As CaCO3)	250	2.0	mg/L	250.0		100	90-110	0	10	
Matrix Spike (2109191-MS1)		Source: 2110347-01			Prepared: 09/15/2021 Analyzed: 09/16/2021					
Alkalinity, Total (As CaCO3)	360	2.0	mg/L	250.0	110	100	70-130			
Matrix Spike Dup (2109191-MSD1)		Source: 2110347-01			Prepared: 09/15/2021 Analyzed: 09/16/2021					
Alkalinity, Total (As CaCO3)	360	2.0	mg/L	250.0	110	102	70-130	1	10	
Batch 2109197 - SM4500-NH3 B,C										
Blank (2109197-BLK1)					Prepared & Analyzed: 09/15/2021					
Nitrogen, Ammonia (As N)	ND	0.50	mg/L							
LCS (2109197-BS1)					Prepared & Analyzed: 09/15/2021					
Nitrogen, Ammonia (As N)	5.1	0.50	mg/L	5.000		103	90-110			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109197 - SM4500-NH3 B,C										
LCS Dup (2109197-BSD1)				Prepared & Analyzed: 09/15/2021						
Nitrogen, Ammonia (As N)	5.2	0.50	mg/L	5.000		103	90-110	0.9	10	
Matrix Spike (2109197-MS1)				Source: 2110009-01		Prepared & Analyzed: 09/15/2021				
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000	0.20	93	75-120			
Matrix Spike (2109197-MS2)				Source: 2110093-01		Prepared & Analyzed: 09/15/2021				
Nitrogen, Ammonia (As N)	5.0	0.50	mg/L	5.000	0.13	96	75-120			
Matrix Spike Dup (2109197-MSD1)				Source: 2110009-01		Prepared & Analyzed: 09/15/2021				
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000	0.20	94	75-120	0.5	20	
Matrix Spike Dup (2109197-MSD2)				Source: 2110093-01		Prepared & Analyzed: 09/15/2021				
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000	0.13	96	75-120	0.4	20	
Batch 2109252 - PAI-DK01										
Blank (2109252-BLK1)				Prepared & Analyzed: 09/20/2021						
Nitrogen, Total Kjeldahl	ND	0.50	mg/L							
LCS (2109252-BS1)				Prepared & Analyzed: 09/20/2021						
Nitrogen, Total Kjeldahl	5.0	0.50	mg/L	5.000		100	80-120			
LCS Dup (2109252-BSD1)				Prepared & Analyzed: 09/20/2021						
Nitrogen, Total Kjeldahl	5.2	0.50	mg/L	5.000		103	80-120	3	20	
Matrix Spike (2109252-MS1)				Source: 2110326-01		Prepared & Analyzed: 09/20/2021				
Nitrogen, Total Kjeldahl	5.1	0.50	mg/L	5.000	ND	102	80-120			
Matrix Spike (2109252-MS2)				Source: 2110347-01		Prepared & Analyzed: 09/20/2021				
Nitrogen, Total Kjeldahl	5.0	0.50	mg/L	5.000	ND	100	80-120			
Matrix Spike Dup (2109252-MSD1)				Source: 2110326-01		Prepared & Analyzed: 09/20/2021				
Nitrogen, Total Kjeldahl	5.0	0.50	mg/L	5.000	ND	100	80-120	1	20	
Matrix Spike Dup (2109252-MSD2)				Source: 2110347-01		Prepared & Analyzed: 09/20/2021				
Nitrogen, Total Kjeldahl	4.9	0.50	mg/L	5.000	ND	98	80-120	3	20	
Batch 2109273 - SM4500-SiO2 C										
Blank (2109273-BLK1)				Prepared & Analyzed: 09/22/2021						
Silica	ND	2.0	mg/L							
LCS (2109273-BS1)				Prepared & Analyzed: 09/22/2021						
Silica	8.2	2.0	mg/L	8.000		103	90-110			
LCS Dup (2109273-BSD1)				Prepared & Analyzed: 09/22/2021						
Silica	8.3	2.0	mg/L	8.000		104	90-110	0.8	20	
Matrix Spike (2109273-MS1)				Source: 2110483-01		Prepared & Analyzed: 09/22/2021				
Silica	73	10	mg/L	40.00	27	116	85-115			M1
Matrix Spike Dup (2109273-MSD1)				Source: 2110483-01		Prepared & Analyzed: 09/22/2021				
Silica	73	10	mg/L	40.00	27	115	85-115	0.6	20	

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Date Received: 09/09/2021

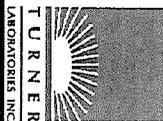
QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109132 - E300.0 (2.1)										
Blank (2109132-BLK1) Prepared & Analyzed: 09/10/2021										
Chloride	ND	1.0	mg/L							
Fluoride	ND	0.50	mg/L							
Nitrogen, Nitrate (As N)	ND	0.50	mg/L							
Nitrogen, Nitrite (As N)	ND	0.10	mg/L							
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (2109132-BS1) Prepared & Analyzed: 09/10/2021										
Chloride	12	1.0	mg/L	12.50		97	90-110			
Fluoride	2.0	0.50	mg/L	2.000		102	90-110			
Nitrogen, Nitrate (As N)	5.0	0.50	mg/L	5.000		99	90-110			
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500		94	90-110			
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500		108	90-110			
Sulfate	14	5.0	mg/L	12.50		109	90-110			
LCS Dup (2109132-BSD1) Prepared & Analyzed: 09/10/2021										
Chloride	12	1.0	mg/L	12.50		97	90-110	0.09	10	
Fluoride	2.0	0.50	mg/L	2.000		100	90-110	2	10	
Nitrogen, Nitrate (As N)	5.0	0.50	mg/L	5.000		100	90-110	0.2	10	
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500		95	90-110	0.2	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500		107	90-110	1	10	
Sulfate	13	5.0	mg/L	12.50		107	90-110	2	10	
Matrix Spike (2109132-MS1) Source: 2110230-01 Prepared: 09/10/2021 Analyzed: 09/18/2021										
Chloride	15	1.0	mg/L	12.50	2.9	98	80-120			
Fluoride	1.8	0.50	mg/L	2.000	ND	89	80-120			
Nitrogen, Nitrate (As N)	4.9	0.50	mg/L	5.000	ND	99	80-120			
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500	ND	95	80-120			
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500	ND	106	80-120			
Matrix Spike (2109132-MS2) Source: 2110230-03 Prepared: 09/10/2021 Analyzed: 09/18/2021										
Chloride	13	1.0	mg/L	12.50	2.0	92	80-120			
Fluoride	1.8	0.50	mg/L	2.000	ND	91	80-120			
Nitrogen, Nitrate (As N)	4.9	0.50	mg/L	5.000	ND	98	80-120			
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500	ND	94	80-120			
Phosphorus, Dissolved Orthophosphate (As P)	2.6	0.50	mg/L	2.500	ND	105	80-120			
Sulfate	15	5.0	mg/L	12.50	4.9	79	80-120			M2
Matrix Spike (2109132-MS3) Source: 2110230-04 Prepared: 09/10/2021 Analyzed: 09/21/2021										
Chloride	14	1.0	mg/L	12.50	1.9	94	80-120			
Fluoride	1.8	0.50	mg/L	2.000	ND	92	80-120			
Nitrogen, Nitrate (As N)	4.7	0.50	mg/L	5.000	ND	93	80-120			
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500	ND	98	80-120			
Sulfate	14	5.0	mg/L	12.50	4.6	78	80-120			M2

Client: Rosemont Copper Company
Project: Baseline Stormwater Monitoring
Work Order: 2110262
Date Received: 09/09/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2109132 - E300.0 (2.1)										
Matrix Spike Dup (2109132-MSD1)		Source: 2110230-01			Prepared: 09/10/2021 Analyzed: 09/18/2021					
Chloride	15	1.0	mg/L	12.50	2.9	100	80-120	2	10	
Fluoride	1.8	0.50	mg/L	2.000	ND	91	80-120	2	10	
Nitrogen, Nitrate (As N)	5.0	0.50	mg/L	5.000	ND	100	80-120	1	10	
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500	ND	96	80-120	0.4	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.6	0.50	mg/L	2.500	ND	105	80-120	0.8	10	
Sulfate	18	5.0	mg/L	12.50	7.8	79	80-120	0.3	10	M2
Matrix Spike Dup (2109132-MSD2)		Source: 2110230-03			Prepared: 09/10/2021 Analyzed: 09/18/2021					
Chloride	13	1.0	mg/L	12.50	2.0	92	80-120	0.3	10	
Fluoride	1.8	0.50	mg/L	2.000	ND	91	80-120	0.09	10	
Nitrogen, Nitrate (As N)	4.9	0.50	mg/L	5.000	ND	98	80-120	0.6	10	
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500	ND	95	80-120	0.2	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.6	0.50	mg/L	2.500	ND	104	80-120	0.3	10	
Sulfate	15	5.0	mg/L	12.50	4.9	79	80-120	0.07	10	M2
Matrix Spike Dup (2109132-MSD3)		Source: 2110230-04			Prepared: 09/10/2021 Analyzed: 09/21/2021					
Chloride	14	1.0	mg/L	12.50	1.9	95	80-120	1	10	
Fluoride	1.8	0.50	mg/L	2.000	ND	92	80-120	0.4	10	
Nitrogen, Nitrate (As N)	4.7	0.50	mg/L	5.000	ND	94	80-120	1	10	
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500	ND	99	80-120	1	10	



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 Fax: (520) 882-9788
 www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 210262 DATE 9/9/21 PAGE 1 OF 1

PROJECT NAME: <u>Stormwater</u> # _____		CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX		
CONTACT NAME: <u>David Krizek</u>				
COMPANY NAME: <u>Hudbay Minerals/ Rosemont Copper Company</u>		NUMBER OF CONTAINERS <u>See Attached Letter</u>		
ADDRESS: <u>5255 E Williams Circle, Suite 1065</u>				
CITY: <u>Tucson</u>	STATE: <u>AZ</u> ZIP CODE: <u>85711</u>			
PHONE: <u>520-495-3527</u>	FAX: _____			
SAMPLER'S SIGNATURE: _____				
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*
<u>TTA-1 090521</u>	<u>09.05.21</u>	<u>01:10</u>		<u>SW</u>
<u>TTA-3 090521</u>	<u>09.05.21</u>	<u>01:10</u>		<u>SW</u>
<u>TTB-1 090521</u>	<u>09.05.21</u>	<u>01:10</u>		<u>SW</u>
<u>DYB-16 090521</u>	<u>09.05.21</u>	<u>01:10</u>		<u>SW</u>
1. RELINQUISHED BY: <u>David Krizek</u> Signature: _____ Printed Name: _____ Date/Time: <u>09.09.21 / 1:10pm</u> Firm: <u>Rosemont</u>				
2. RECEIVED BY: _____ Signature: _____ Printed Name: _____ Date/Time: _____ Firm: _____				
3. RELINQUISHED BY: _____ Signature: _____ Printed Name: _____ Date/Time: _____ Firm: _____				
4. RECEIVED BY: _____ Signature: _____ Printed Name: _____ Date/Time: <u>9/9/21 1210</u> Firm: <u>TURNER LABORATORIES, INC.</u>				
TURNAROUND REQUIREMENTS: Standard (approx. 10 days)* Next day _____ 2 Day _____ 5 Day* Email Preliminary Results to: _____ *Working Days		*LEGEND DW = DRINKING WATER GW = GROUNDWATER SD = SOLID SG = SLUDGE SL = SOIL ST = STORMWATER WW = WASTEWATER		
REPORT REQUIREMENTS: I. Routine Report II. Report (includes DUP, MS, MSD, as required, may be charged as samples) III. Date Validation Report (includes All Raw Data) Add 10% to Invoice		INVOICE INFORMATION: Account _____ Y _____ N _____ P.O. # _____ Bill to: _____		
SPECIAL INSTRUCTIONS/COMMENTS: Compliance Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No Mail ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No		SAMPLE RECEIPT: Total Containers: <u>20</u> Temperature: <u>21</u> <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice		
Custody Seals: <input type="checkbox"/> Container Intact: <input checked="" type="checkbox"/> COC/Labels Agree: <input checked="" type="checkbox"/>		Preservation Confirmation: <input checked="" type="checkbox"/> Appropriate Head Space: <input checked="" type="checkbox"/> Received Within Hold Time: <input checked="" type="checkbox"/>		

Table B-1: Stormwater Monitoring – Existing Conditions

July 1, 2021

Stormwater Monitoring – Existing Conditions							
Frequency: As needed when sampled and when sufficient storm flows occur in washes (Field Parameters)							
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds	Applicable Water Quality Standard		
					Barrel Canyon Wash ¹	Upper Davidson Canyon Wash ²	West Side Unlisted Tributaries ¹
General Measurements							
Temperature – field	° C (Celsius)	Oakton PC 450 Meter/Oakton pH Con 10 Meter	NA	NA	NNS	NNS	NNS
pH – field	S.U.	Oakton PC 450 Meter/Oakton pH Con 10 Meter	NA	NA	6.5 – 9.0	6.5 – 9.0	6.5 – 9.0
Conductivity – field	µS/cm	Oakton PC 450 Meter/Oakton pH Con 10 Meter	NA	NA	NNS	NNS	NNS

Table B-1: Stormwater Monitoring – Existing Conditions

July 1, 2021

Table B-1 continued. Stormwater Monitoring – Existing Conditions

Frequency: As needed when sampled and when sufficient storm flows occur in washes (Laboratory Parameters)							
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds	Applicable Water Quality Standard ¹		
					Barrel Canyon Wash ¹	Upper Davidson Canyon Wash ²	West Side Unlisted Tributaries ¹
General Measurements, General Chemistry (continued)							
Nitrate + Nitrite (as N)	mg/L	EPA 300.0/ calculation	0.10	NA	NNS	NNS	NNS
Total Nitrogen	mg/L	Total Nitrogen/ calculation	NA	NA	NNS	NNS	NNS
Total Kjeldahl Nitrogen	mg/L	EPA 351.2	0.50	NA	NNS	NNS	NNS
Calcium ³	mg/L	EPA 200.7	2.0	NA	NNS	NNS	NNS
Magnesium ³	mg/L	EPA 200.7	2.0	NA	NNS	NNS	NNS
Sodium ³	mg/L	EPA 200.7	0.5	NA	NNS	NNS	NNS
Potassium ³	mg/L	EPA 200.7	0.5	NA	NNS	NNS	NNS
Ammonia (as N)	mg/L	SM 4500	0.5	NA	NNS	NNS	NNS
Orthophosphate (as P)	mg/L	EPA 300.0	0.1	NA	NNS	NNS	NNS
Silicon Dioxide ³	mg/L	EPA 200.7	0.214	NA	NNS	NNS	NNS

Table B-1: Stormwater Monitoring – Existing Conditions

July 1, 2021

Table B-1 continued. Stormwater Monitoring – Existing Conditions

Frequency: As needed when sampled and when sufficient storm flows occur in washes (Laboratory Parameters)							
Parameter	Units	Analytical Method	Acceptable Detection Limits (at or below the listed value)	Permit Limits / Thresholds	Applicable Water Quality Standard ¹		
					Barrel Canyon Wash	Upper Davidson Canyon Wash ²	West Side Unlisted Tributaries
Total Recoverable Metals							
Aluminum	mg/L	EPA 200.7	0.1	NA	NNS	NNS	NNS
Antimony	mg/L	EPA 200.8	0.001	NA	0.747	0.747	0.747
Arsenic	mg/L	EPA 200.8	0.0005	NA	0.280	0.200	0.280
Barium	mg/l	EPA 200.7	0.01	NA	98.0	98.0	98.0
Beryllium	mg/L	EPA 200.7	0.001	NA	1.867	1.867	1.867
Boron	mg/L	EPA 200.7	0.05	NA	186.67	186.67	186.67
Cadmium	mg/L	EPA 200.7	0.001	NA	0.700	0.05	0.700
Chromium – total ⁴	mg/L	EPA 200.7	0.01	NA	1,400	1,400	1,400
Cobalt	mg/l	EPA 200.7	0.01	NA	NNS	NNS	NNS
Copper	mg/L	EPA 200.7	0.01	NA	1.30	0.05	1.30
Iron	mg/L	EPA 200.7	0.1	NA	NNS	NNS	NNS
Lead	mg/L	EPA 200.8	0.0005	NA	0.015	0.015	0.015
Manganese	mg/L	EPA 200.7	0.01	NA	130.667	130.667	130.667
Mercury	mg/L	EPA 245.1	0.0002	NA	0.280	0.01	0.280
Molybdenum	mg/l	EPA 200.7	0.01	NA	NNS	NNS	NNS
Nickel	mg/L	EPA 200.7	0.01	NA	28.0	28.0	28.0
Selenium	mg/L	EPA 200.8	0.0005	NA	0.033	0.033	0.033
Silver	mg/L	EPA 200.8	0.0001	NA	4.667	4.667	4.667
Thallium	mg/L	EPA 200.8	0.0001	NA	0.075	0.075	0.075
Uranium	mg/L	EPA 200.8	0.0001	NA	2.8	2.8	2.8
Zinc	mg/L	EPA 200.8	0.013	NA	280.0	25.0	280.0